

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052392.D
 Acq On : 19 Nov 2018 18:27
 Operator : MD\SY
 Sample : PB114846ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#08

Quant Time: Nov 20 07:13:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	290662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	491630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	420244	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142650	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	216214	52.67	ug/l	0.00
Spiked Amount			Recovery	=	105.34%	
35) Dibromofluoromethane	7.59	113	162396	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	10.09	98	624391	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.40	95	182448	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.59	59	63	0.291	ug/l #	72
13) Acrolein	3.62	56	98	22.044	ug/l	98
16) Acetone	3.83	43	5453	4.824	ug/l	97
18) Methyl Acetate	4.33	43	1412	0.874	ug/l #	66
20) Methylene Chloride	4.56	84	7858	1.607	ug/l	95
29) Tetrahydrofuran	7.21	42	295	0.282	ug/l #	61
31) Cyclohexane	7.67	56	9101	0.406	ug/l #	26
36) 1,1-Dichloropropene	7.67	75	27540	5.589	ug/l #	46
38) Carbon Tetrachloride	7.67	117	30836	6.811	ug/l #	15
41) Methacrylonitrile	7.16	41	140	3.761	ug/l #	100
43) Isopropyl Acetate	8.18	43	20252	2.935	ug/l #	95
45) 1,2-Dichloropropane	9.27	63	987	0.247	ug/l #	44
48) Methyl methacrylate	9.18	41	4788	1.367	ug/l #	34
51) 4-Methyl-2-Pentanone	10.03	43	5912	1.702	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	30284	5.550	ug/l #	74
57) 1,3-Dichloropropane	10.77	76	5936	1.098	ug/l #	43
59) 2-Hexanone	10.76	43	111963	46.860	ug/l #	53
71) Bromoform	12.41	173	672	0.376	ug/l #	1
74) N-amyl acetate	11.88	43	12856	3.147	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	104994	43.377	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7563	0.829	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	104994	140.688	ug/l #	5

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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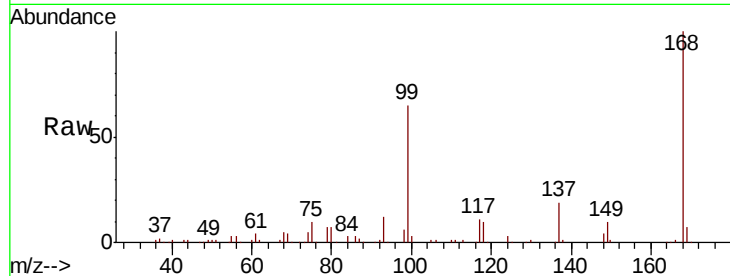
PB114846ZHE#08

Tot Ion:168 Resp: 290662

Ion Ratio Lower Upper

168 100

99 65.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

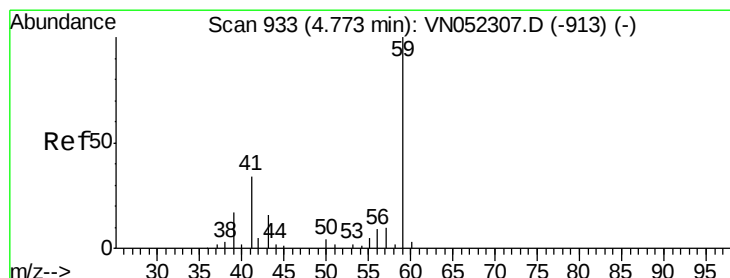
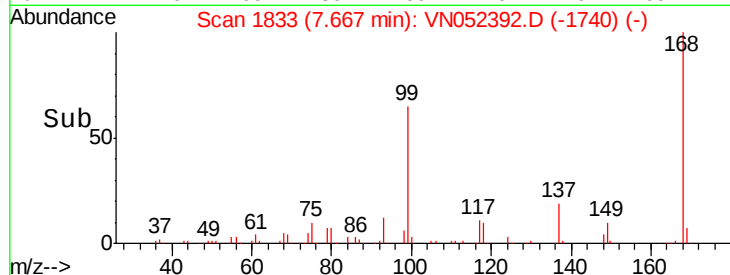
7.67

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.291 ug/l

RT: 4.59 min Scan# 875

Delta R.T. -0.19 min

Lab File: VN052392.D

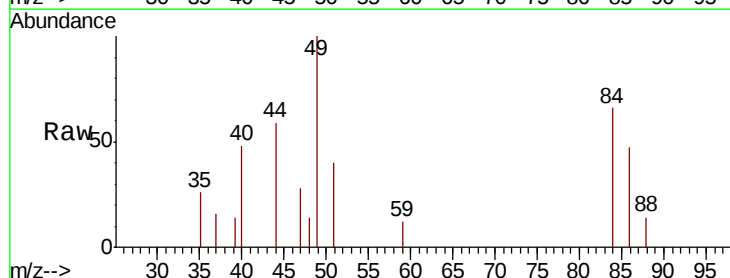
Acq: 19 Nov 2018 18:27

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.59

200

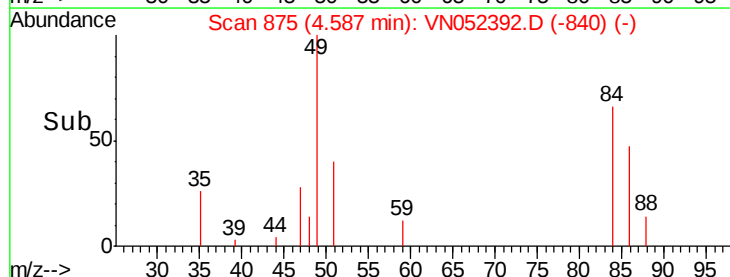
150

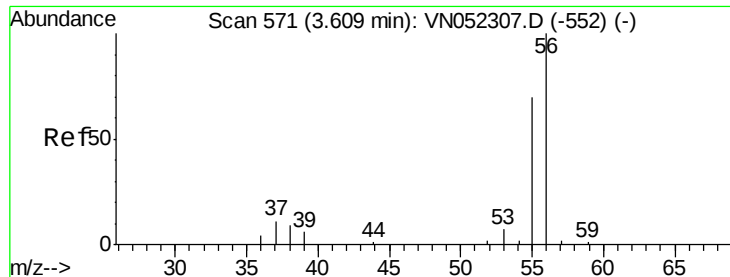
100

50

0

Time-->





#13

Acrolein

Concen: 22.044 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

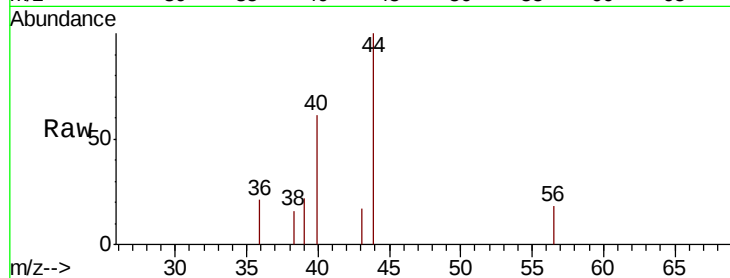
PB114846ZHE#08

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

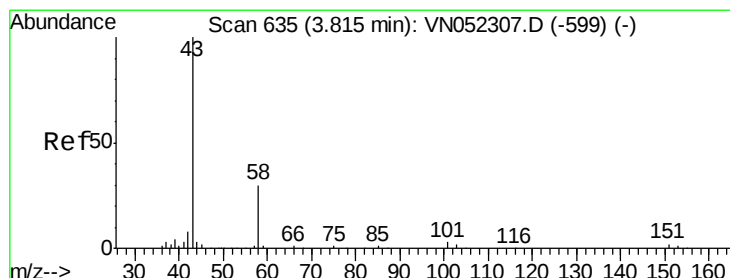
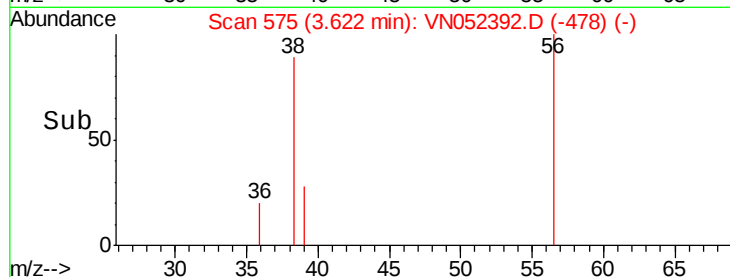
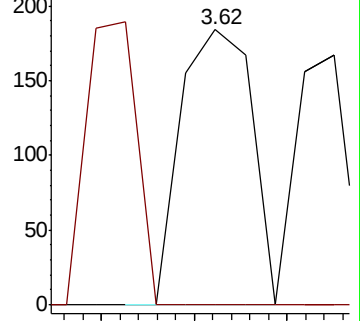
56 100

55 73.5 57.6 86.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 4.824 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052392.D

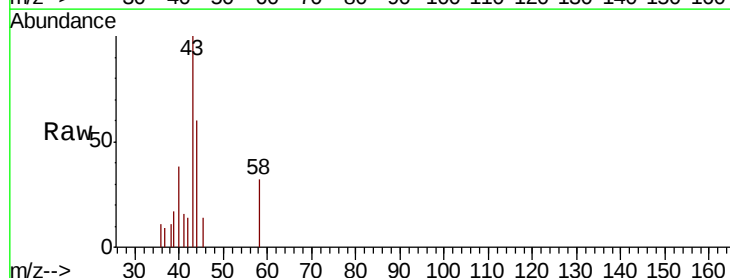
Acq: 19 Nov 2018 18:27

Tgt Ion: 43 Resp: 5453

Ion Ratio Lower Upper

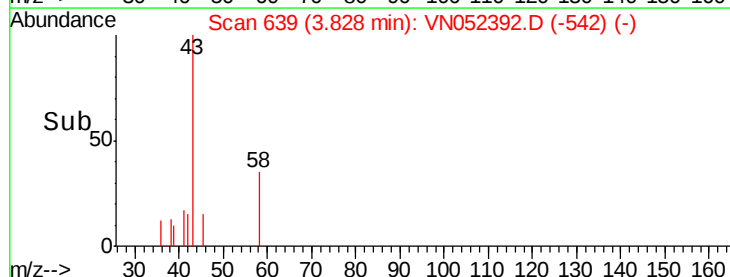
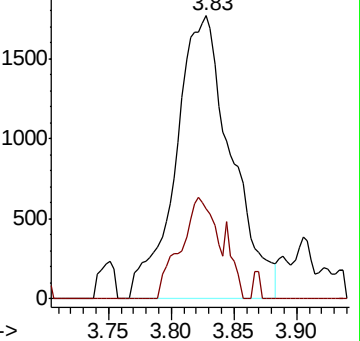
43 100

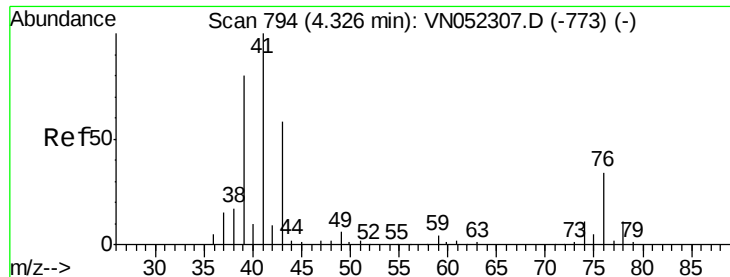
58 31.7 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.874 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

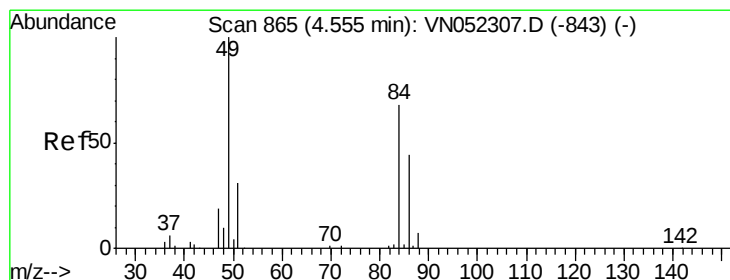
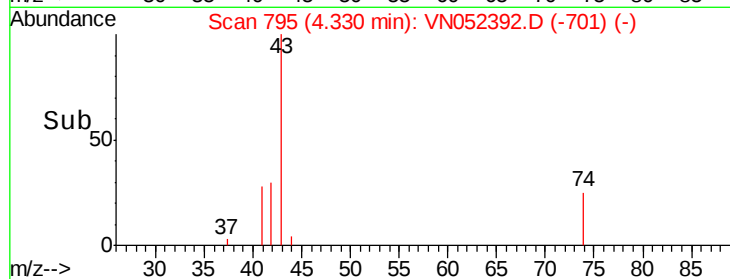
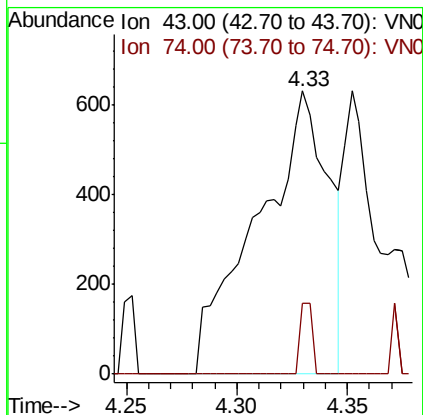
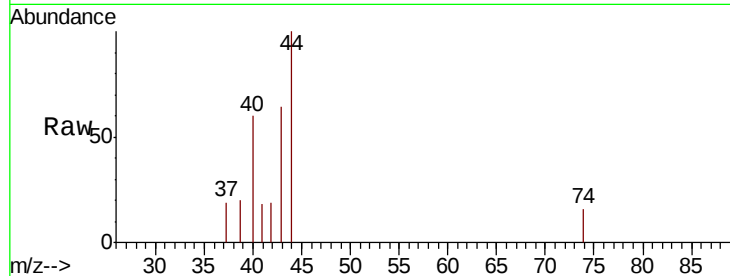
PB114846ZHE#08

Tot Ion: 43 Resp: 1412

Ion Ratio Lower Upper

43 100

74 4.3 15.9 23.9#



#20

Methylene Chloride

Concen: 1.607 ug/l

RT: 4.56 min Scan# 868

Delta R.T. 0.01 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Tgt Ion: 84 Resp: 7858

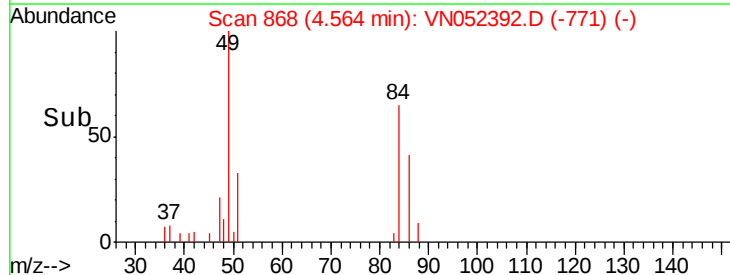
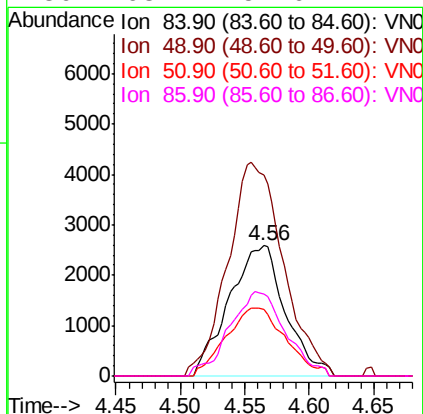
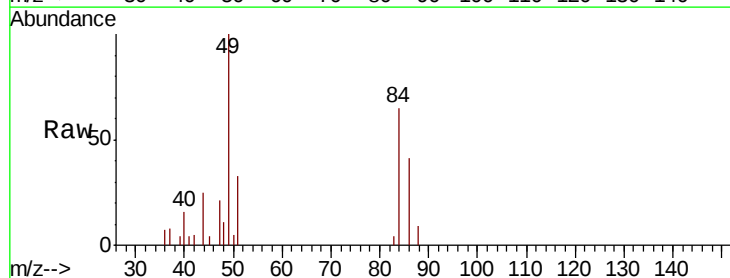
Ion Ratio Lower Upper

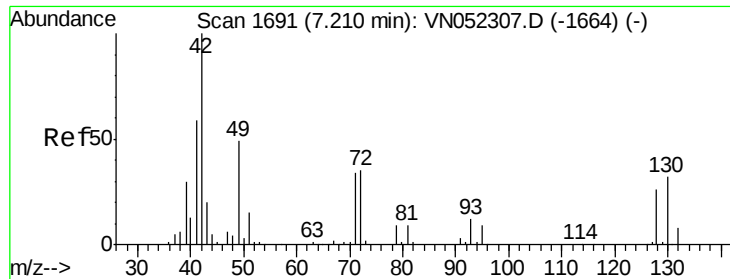
84 100

49 154.0 118.2 177.2

51 51.4 36.1 54.1

86 63.2 51.6 77.4





#29

Tetrahydrofuran

Concen: 0.282 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

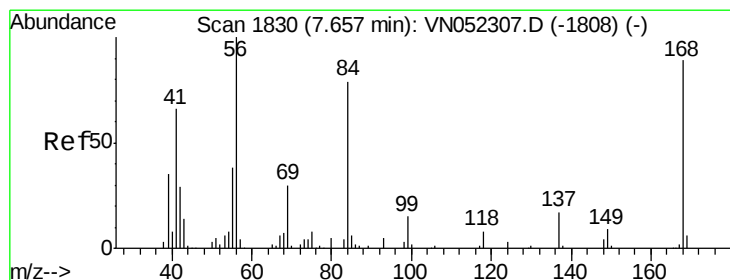
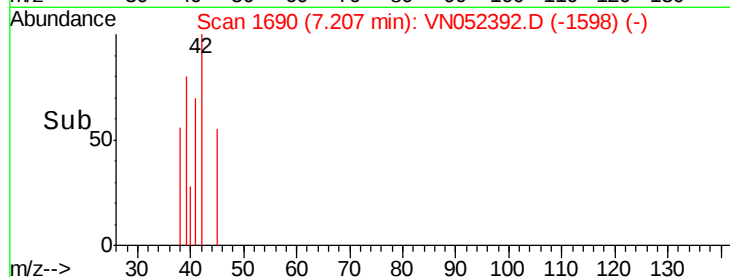
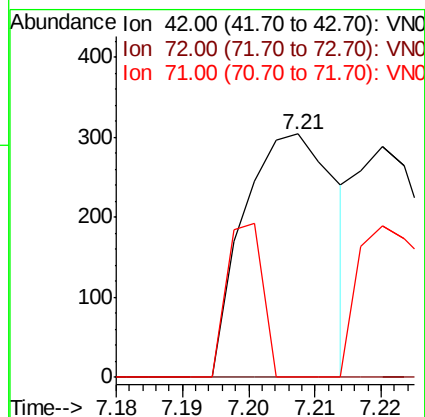
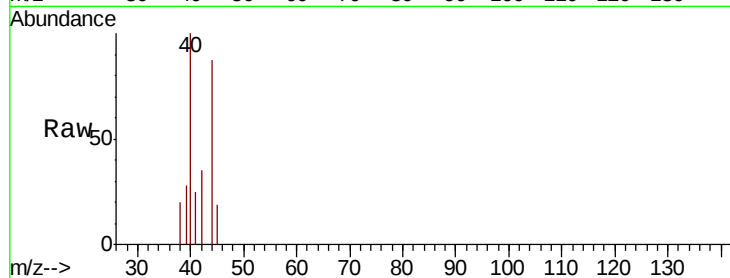
Tot Ion: 42 Resp: 295

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

71 24.7 26.7 40.1#



#31

Cyclohexane

Concen: 0.406 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

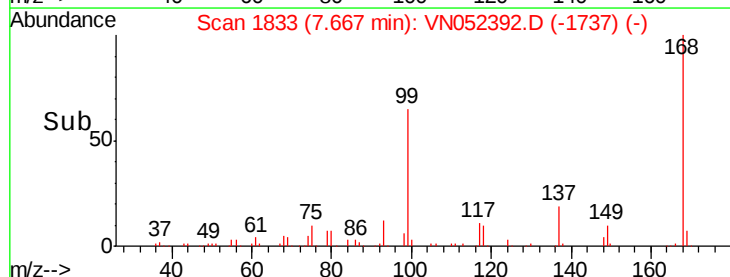
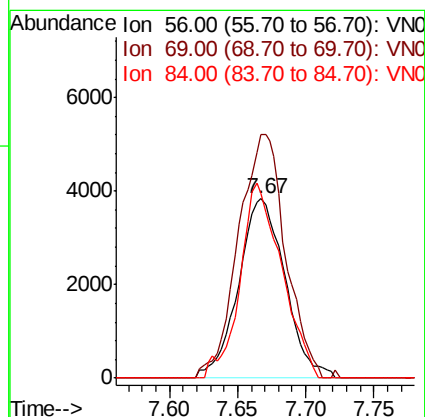
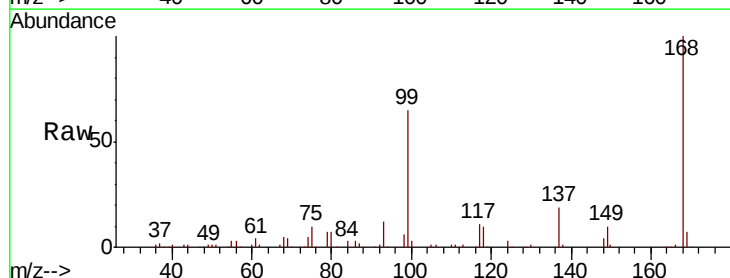
Tgt Ion: 56 Resp: 9101

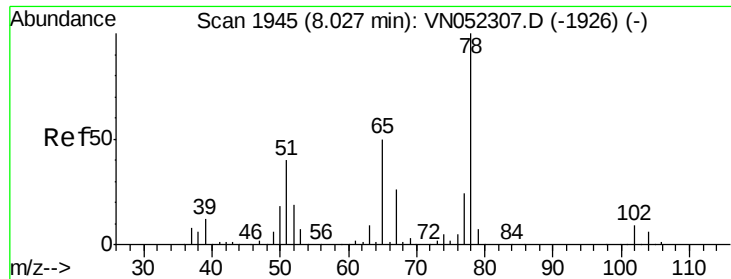
Ion Ratio Lower Upper

56 100

69 135.7 23.8 35.8#

84 102.9 63.0 94.6#

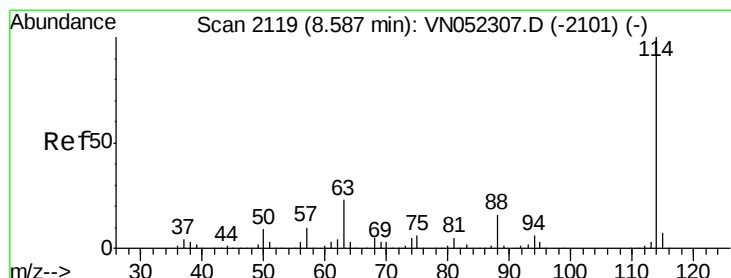
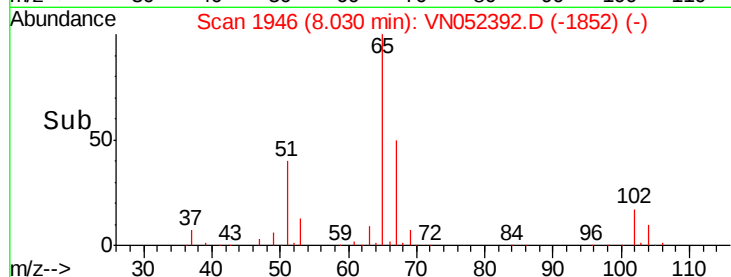
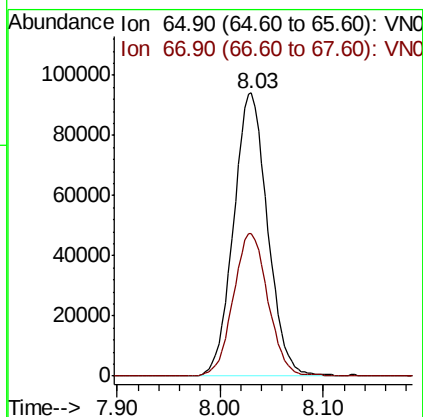
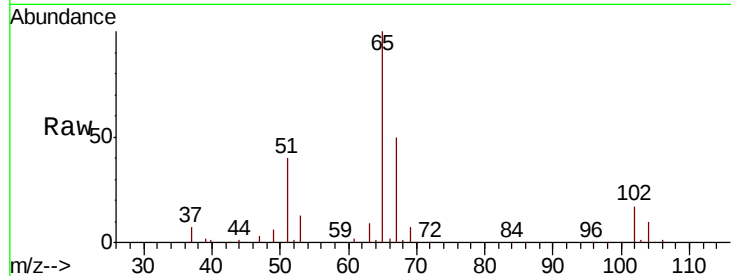




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

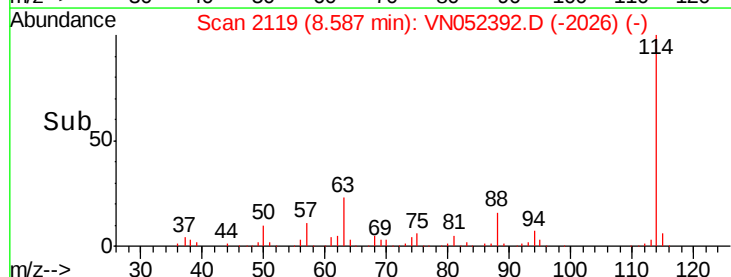
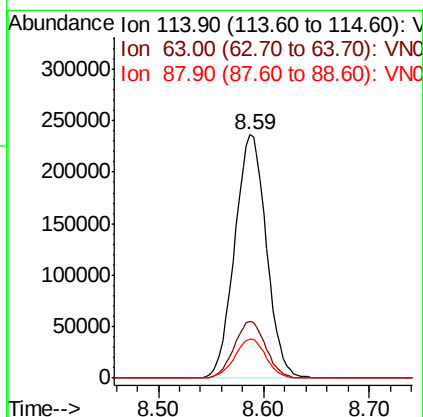
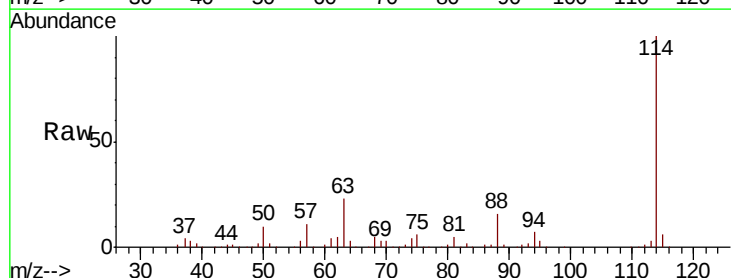
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#08

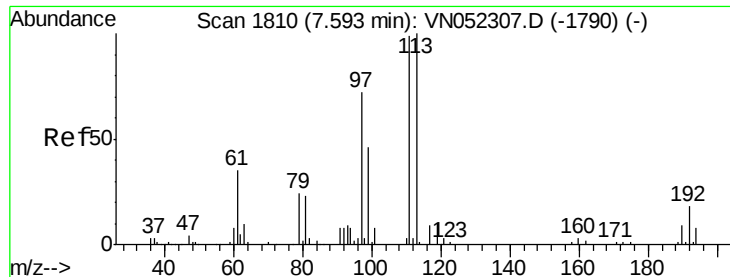
Tot Ion: 65 Resp: 216214
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

Tgt Ion: 114 Resp: 491630
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.4
 88 16.1 0.0 31.2

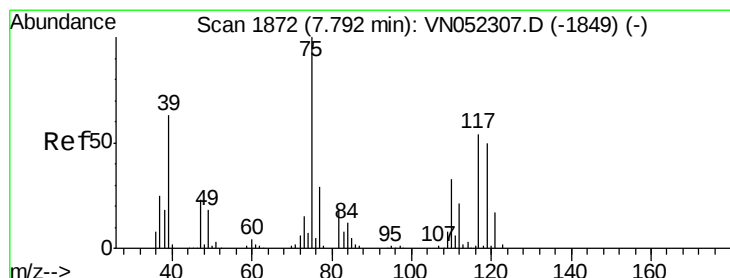
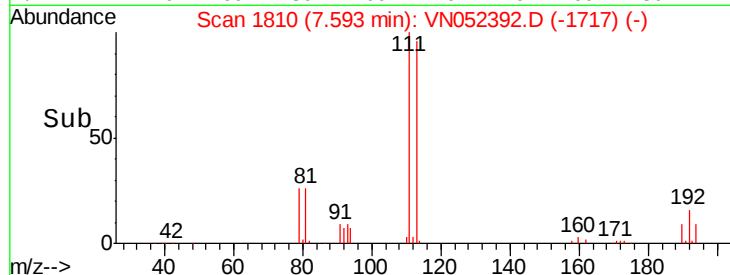
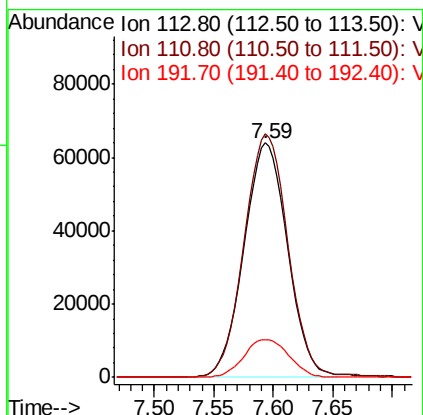
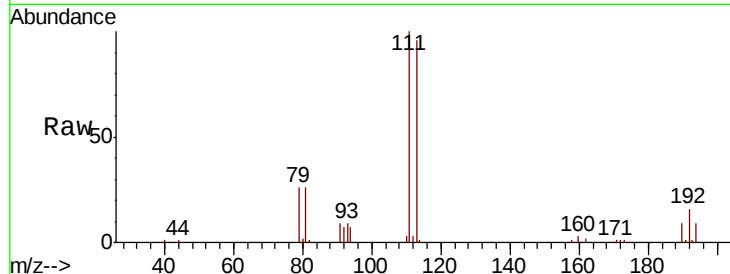




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

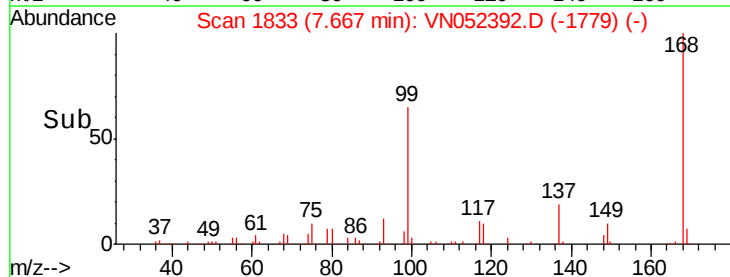
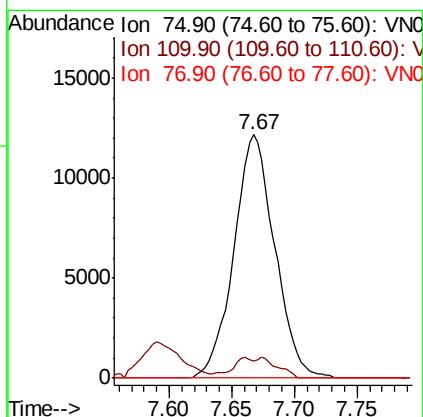
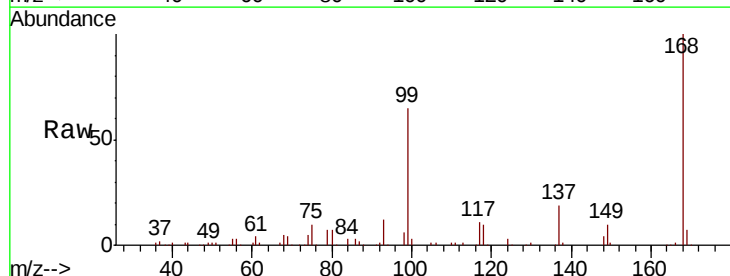
Instrument :
 MSVOA_N
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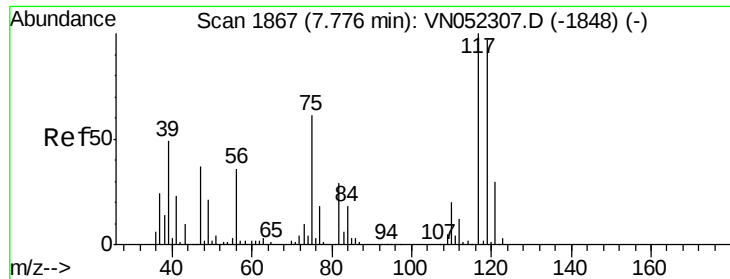
Tot Ion:113 Resp: 162396
 Ion Ratio Lower Upper
 113 100
 111 104.2 81.0 121.6
 192 16.8 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 5.589 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

Tgt Ion: 75 Resp: 27540
 Ion Ratio Lower Upper
 75 100
 110 2.8 16.5 49.5#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.811 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

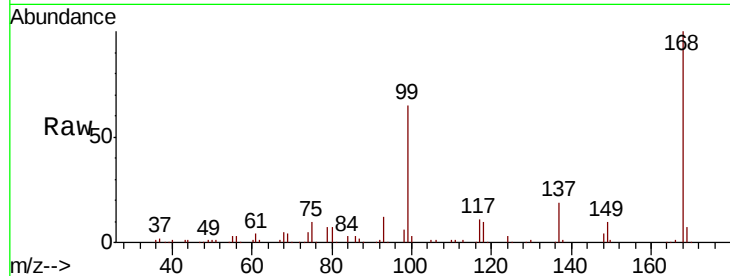
Tot Ion:117 Resp: 30836

Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

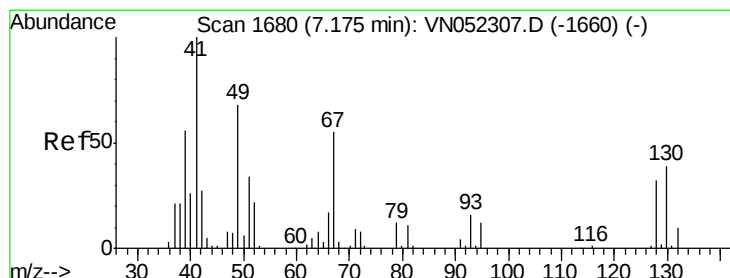
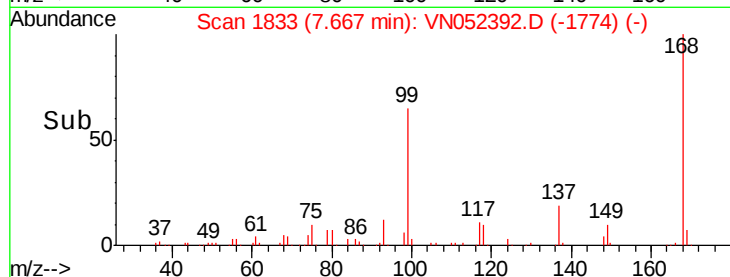
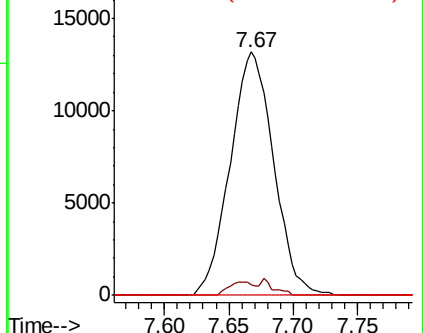
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.761 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Tgt Ion: 41 Resp: 140

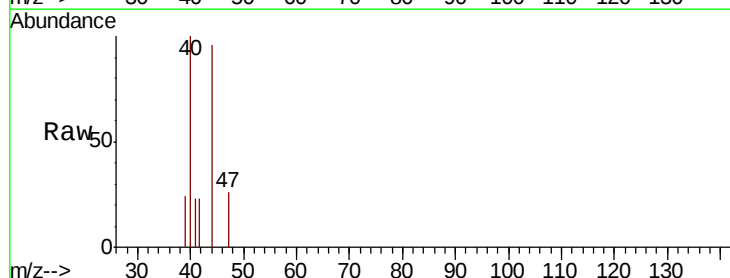
Ion Ratio Lower Upper

41 100

39 122.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

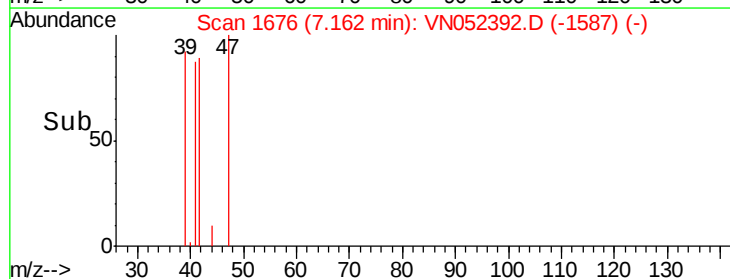
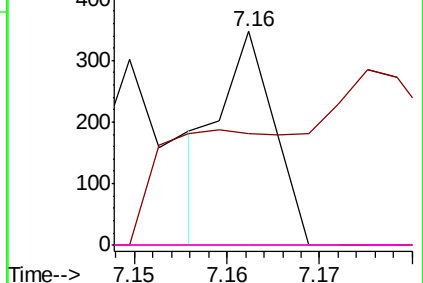


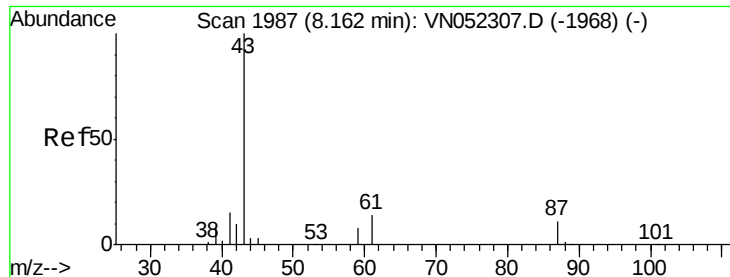
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.935 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

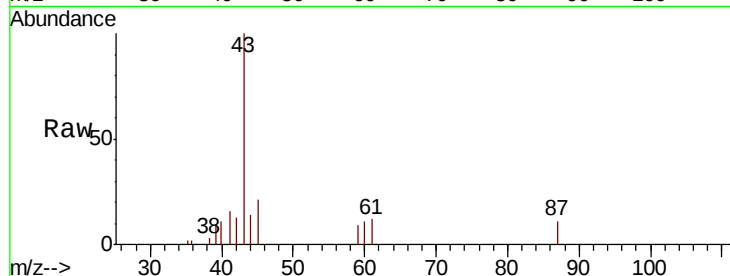
Tot Ion: 43 Resp: 20252

Ion Ratio Lower Upper

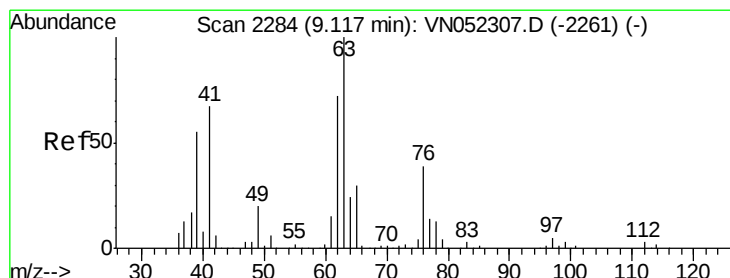
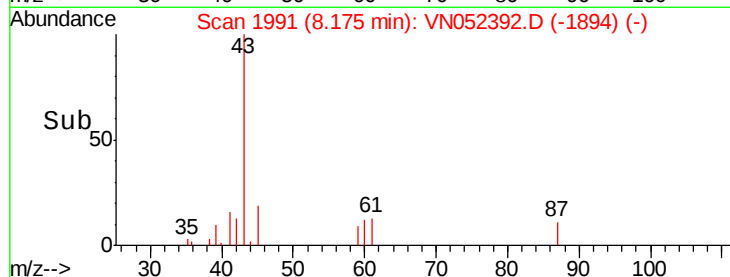
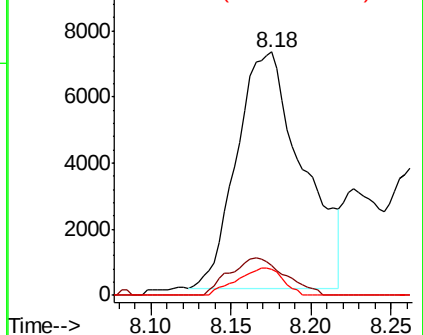
43 100

61 13.1 12.0 18.0

87 7.9 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.247 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN052392.D

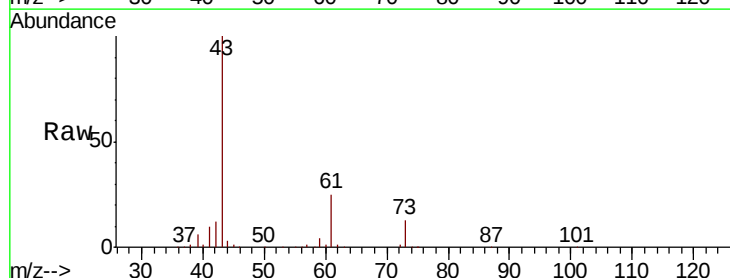
Acq: 19 Nov 2018 18:27

Tgt Ion: 63 Resp: 987

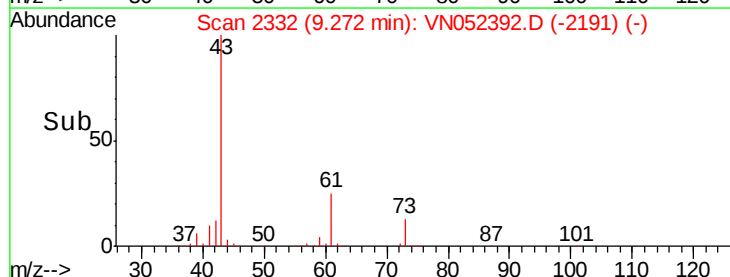
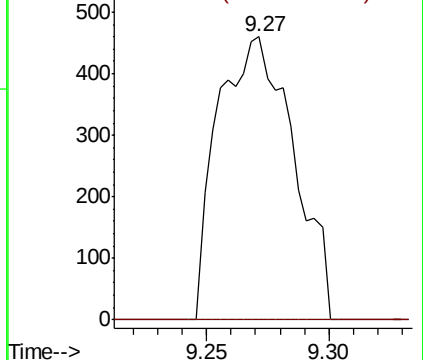
Ion Ratio Lower Upper

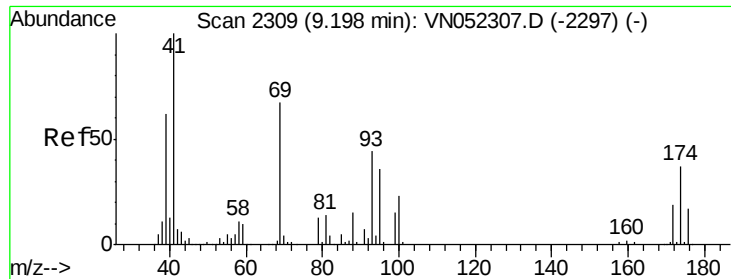
63 100

65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

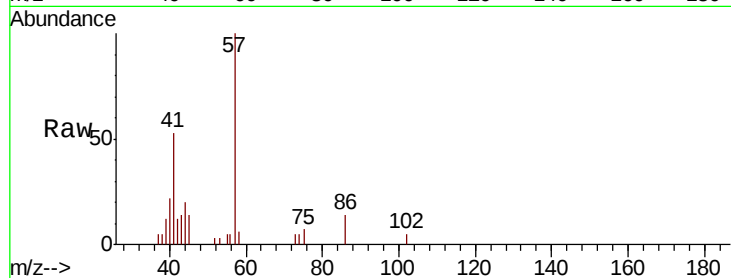




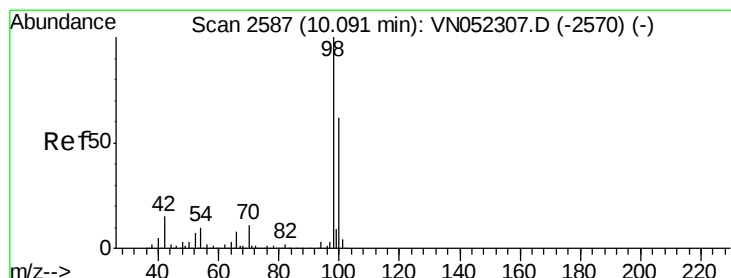
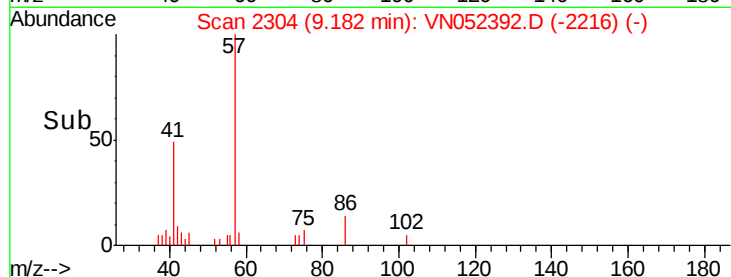
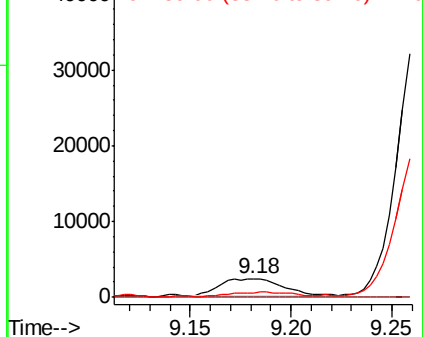
#48
Methvl methacrylate
Concen: 1.367 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052392.D
Acq: 19 Nov 2018 18:27

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#08

Tot Ion: 41 Resp: 4788
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 31.0 52.5 78.7#

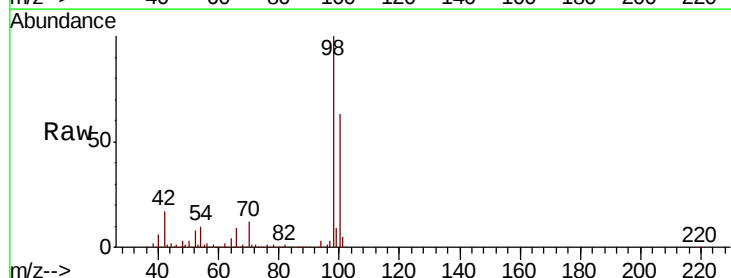


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

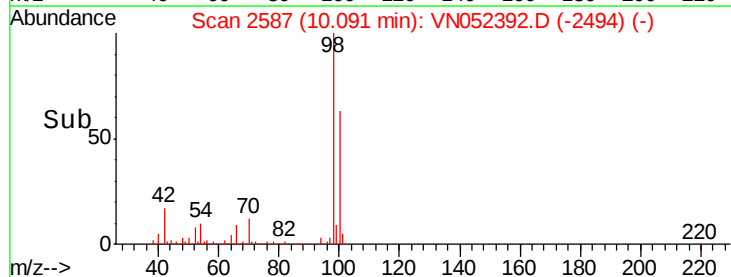
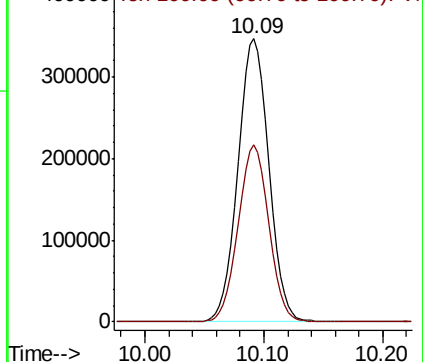


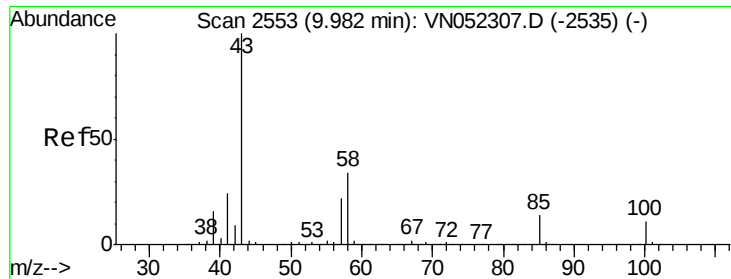
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052392.D
Acq: 19 Nov 2018 18:27

Tgt Ion: 98 Resp: 624391
Ion Ratio Lower Upper
98 100
100 62.1 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.702 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

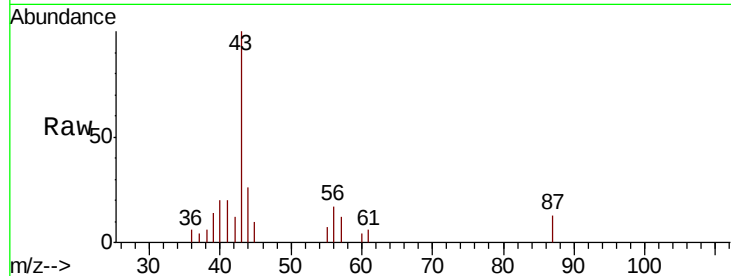
PB114846ZHE#08

Tot Ion: 43 Resp: 5912

Ion Ratio Lower Upper

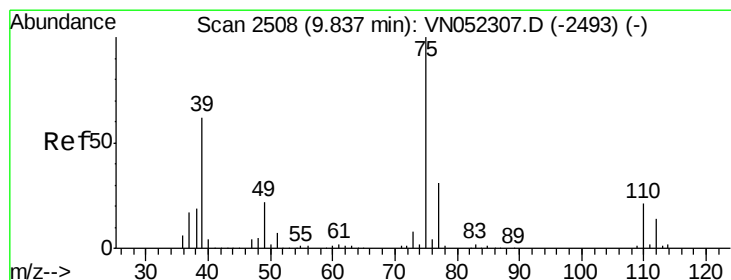
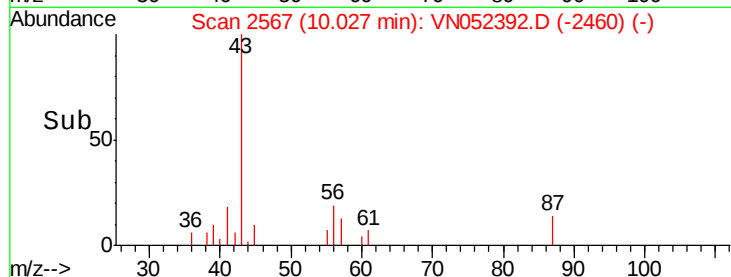
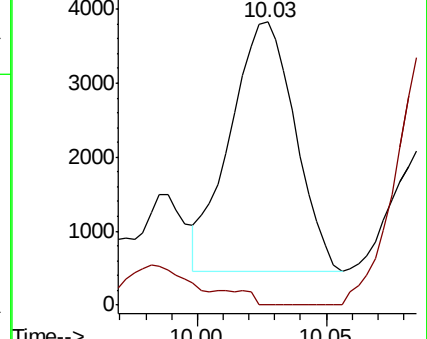
43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.550 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

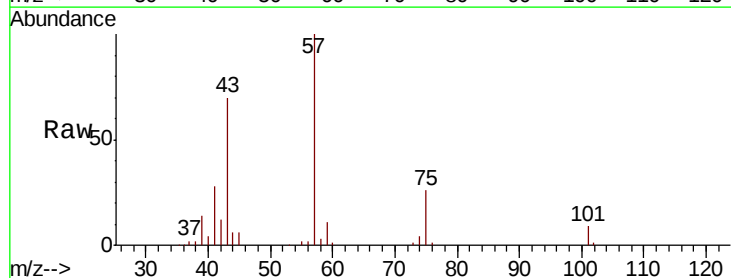
Tgt Ion: 75 Resp: 30284

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

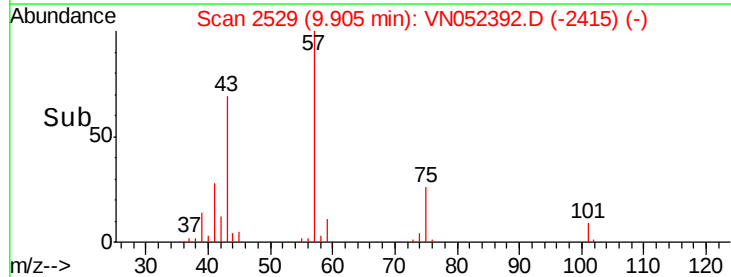
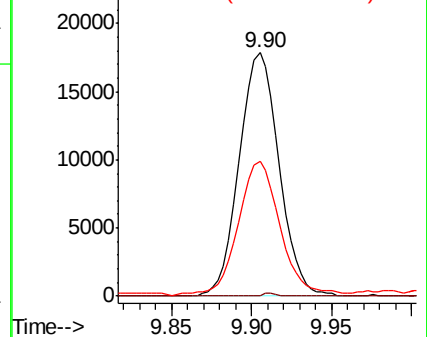
39 54.0 49.9 74.9

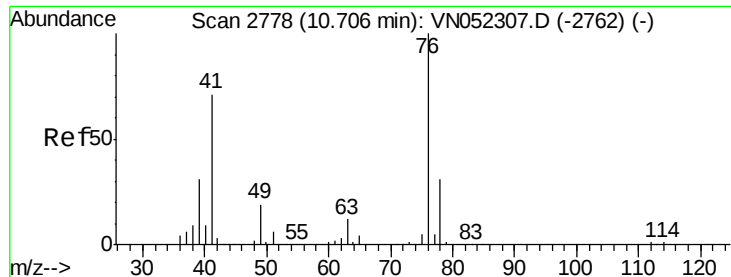


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.098 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

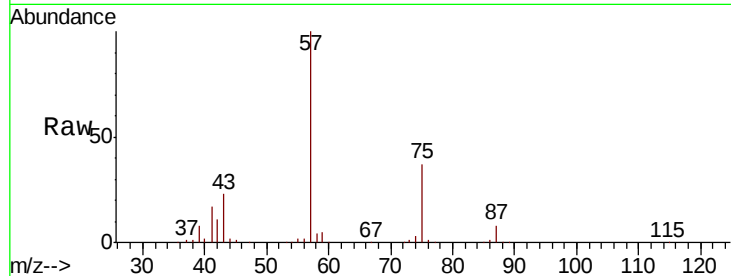
PB114846ZHE#08

Tot Ion: 76 Resp: 5936

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN052392.D (-2685) (-)

Ion 77.90 (77.60 to 78.60): VN052392.D (-2685) (-)

10.77

4000

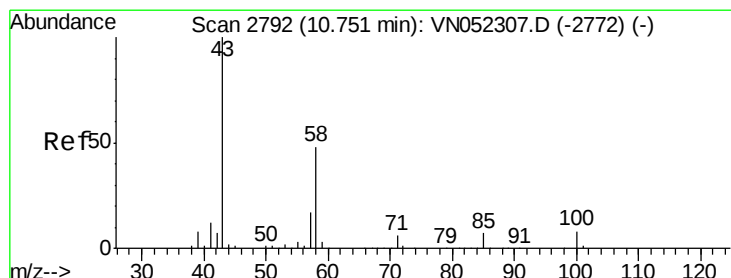
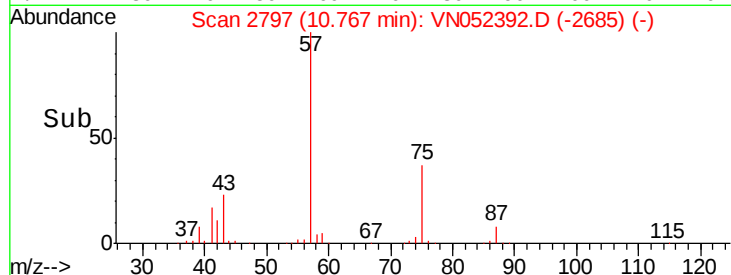
3000

2000

1000

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 46.860 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052392.D

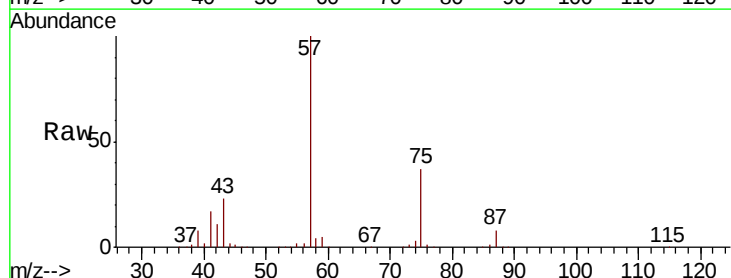
Acq: 19 Nov 2018 18:27

Tgt Ion: 43 Resp: 111963

Ion Ratio Lower Upper

43 100

58 16.0 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052392.D (-2699) (-)

Ion 58.00 (57.70 to 58.70): VN052392.D (-2699) (-)

10.76

80000

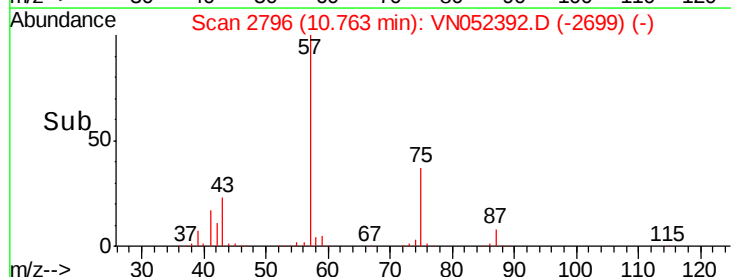
60000

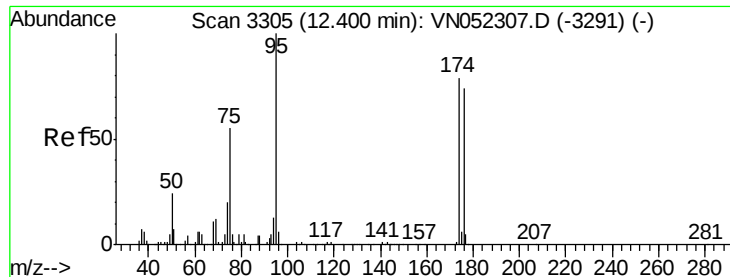
40000

20000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

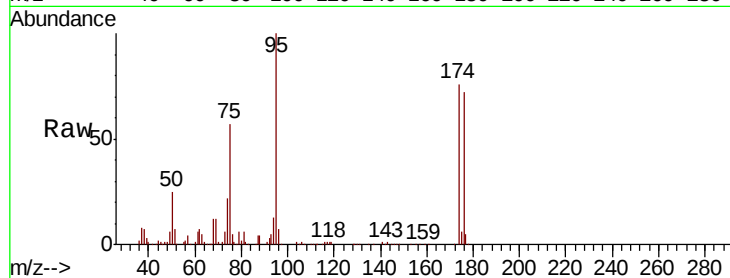
Tot Ion: 95 Resp: 182448

Ion Ratio Lower Upper

95 100

174 75.1 0.0 156.0

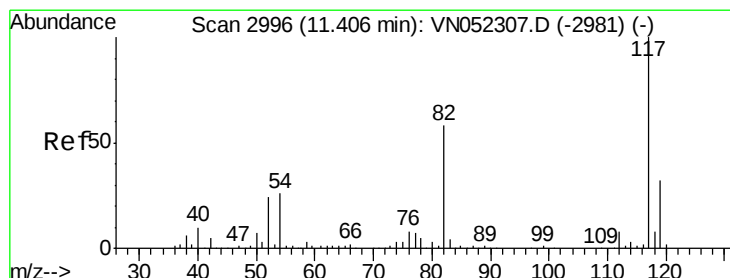
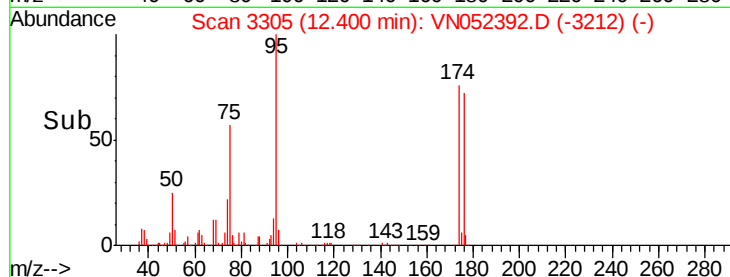
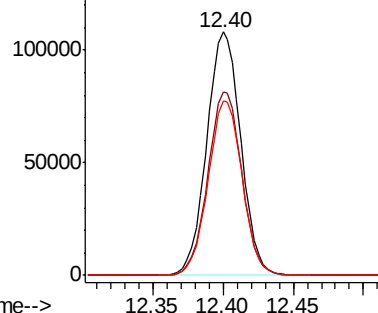
176 71.7 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052392.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052392.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052392.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

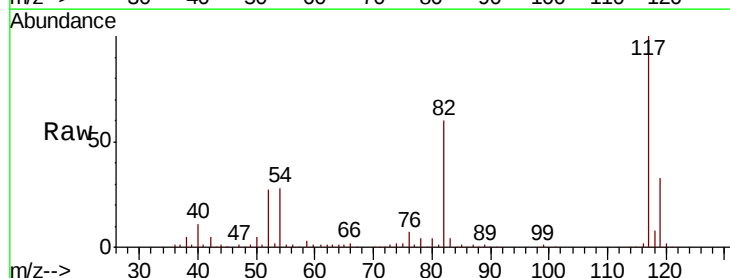
Tgt Ion: 117 Resp: 420244

Ion Ratio Lower Upper

117 100

82 59.7 46.5 69.7

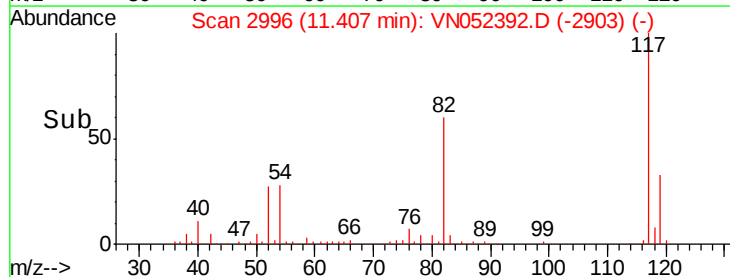
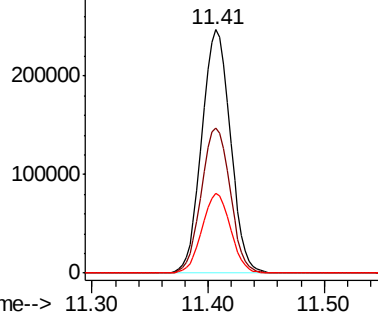
119 32.6 25.7 38.5

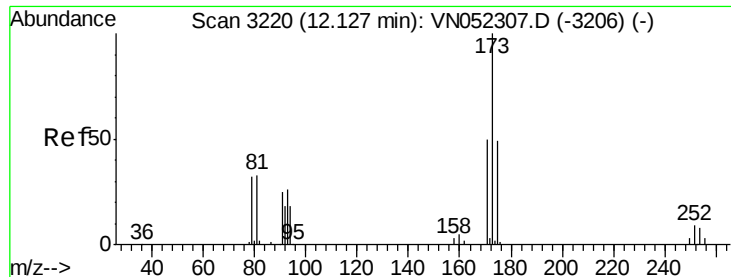


Abundance Ion 116.90 (116.60 to 117.60): VN052392.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052392.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052392.D (-2903) (-)





#71

Bromoform

Concen: 0.376 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

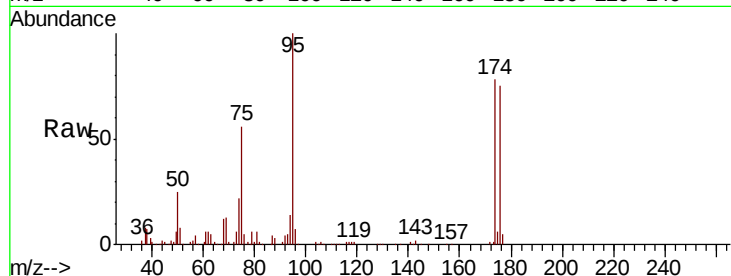
Tot Ion:173 Resp: 672

Ion Ratio Lower Upper

173 100

175 1487.1 25.0 75.0#

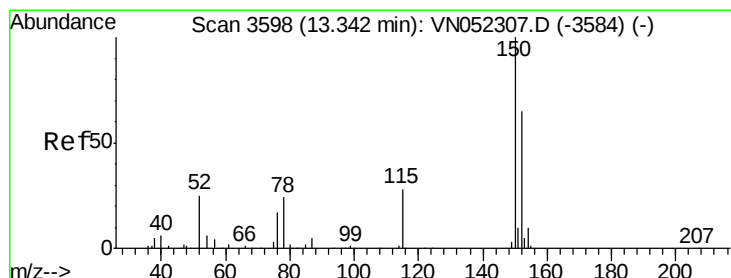
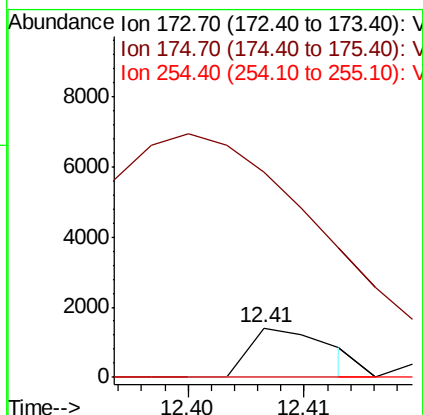
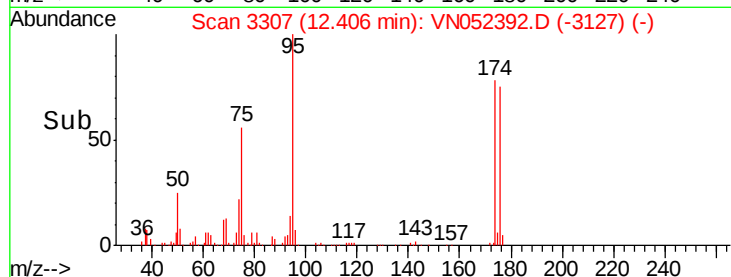
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

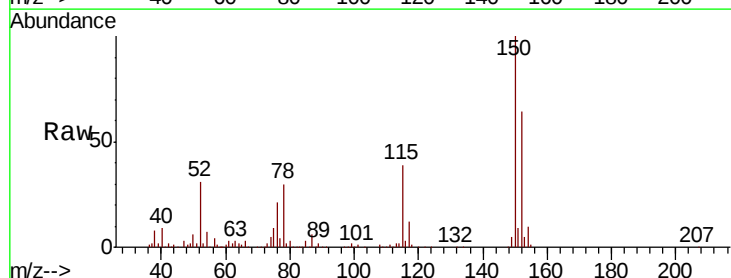
Tgt Ion:152 Resp: 142650

Ion Ratio Lower Upper

152 100

115 61.4 30.3 91.0

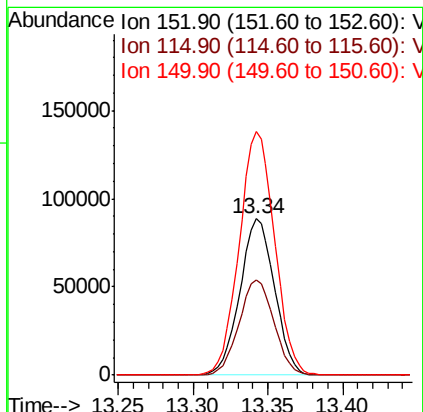
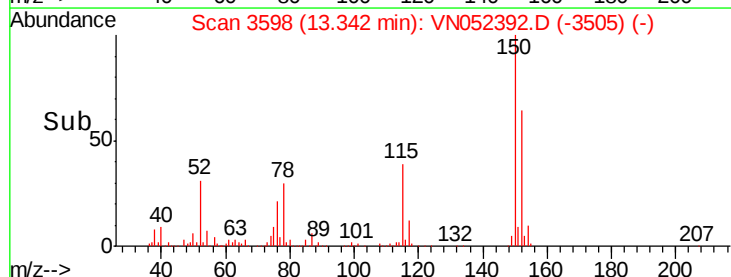
150 158.9 0.0 348.2

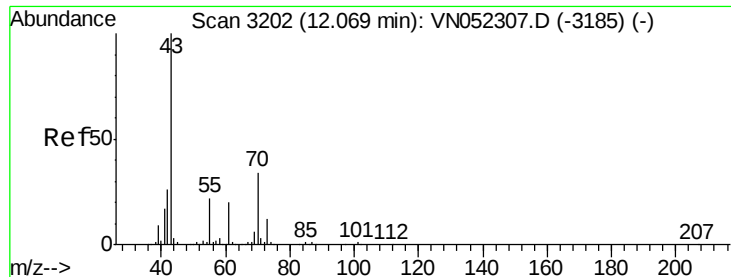


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.147 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052392.D

Acq: 19 Nov 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#08

Tot Ion: 43 Resp: 12856

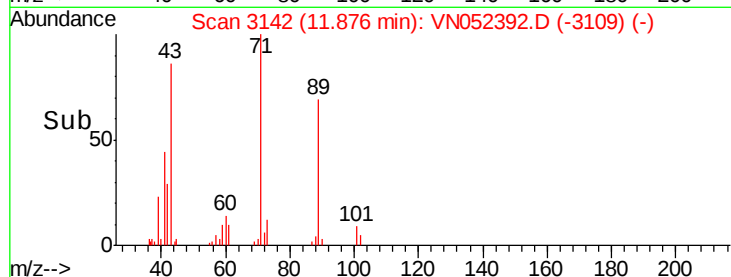
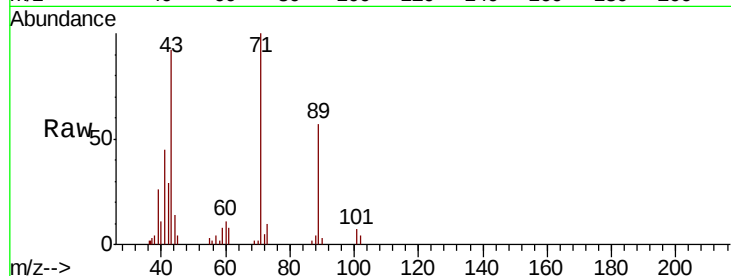
Ion Ratio Lower Upper

43 100

70 2.5 27.1 40.7#

55 4.0 17.4 26.0#

61 8.3 16.1 24.1#

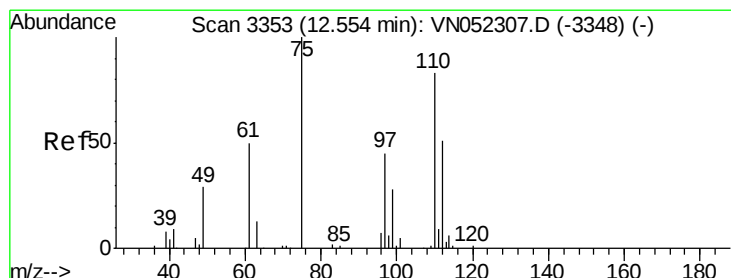
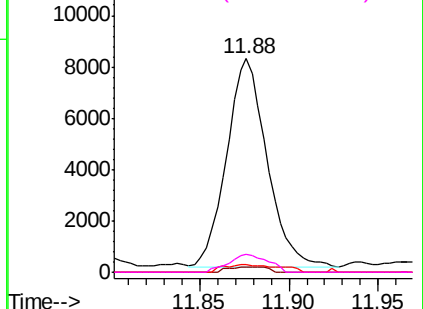


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 43.377 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052392.D

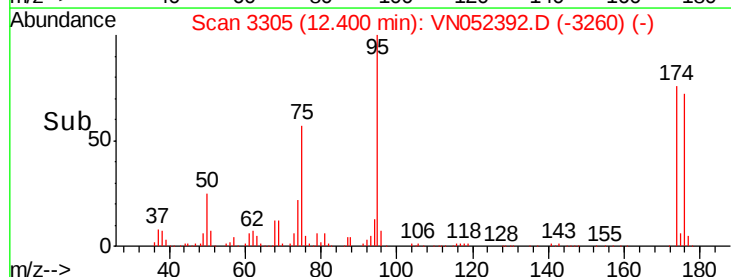
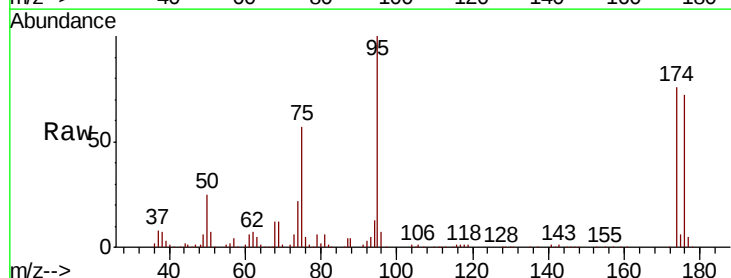
Acq: 19 Nov 2018 18:27

Tgt Ion: 75 Resp: 104994

Ion Ratio Lower Upper

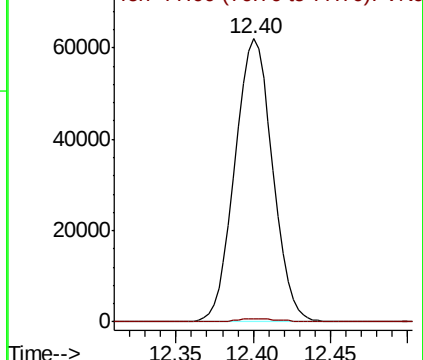
75 100

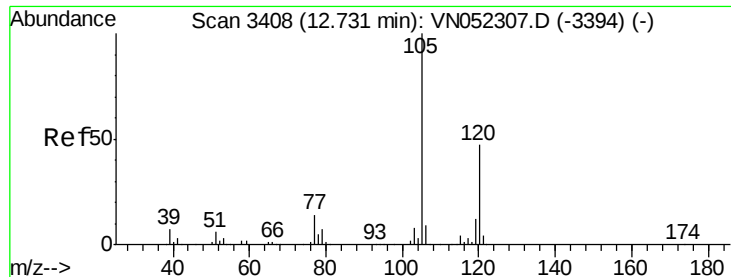
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

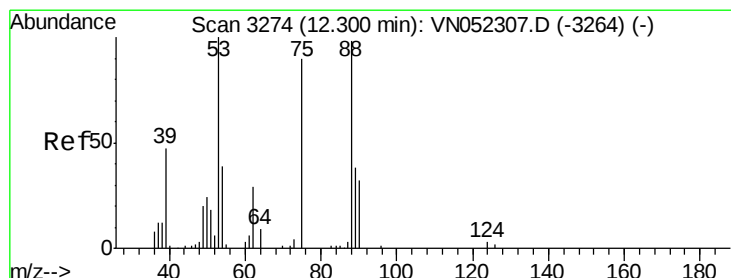
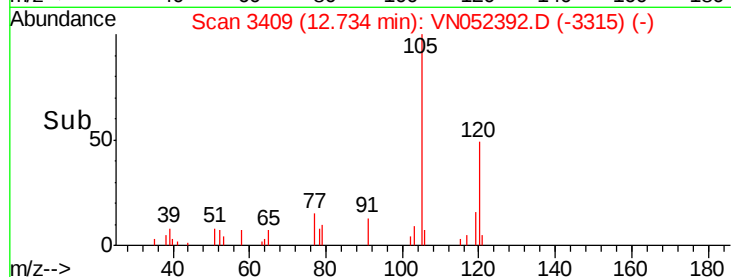
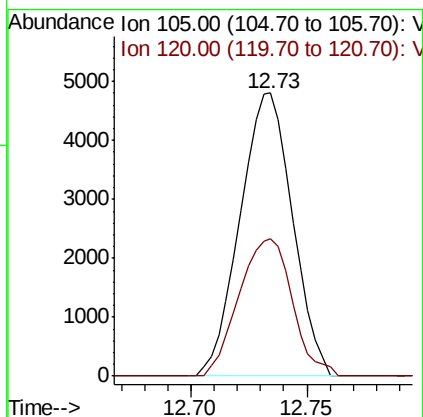
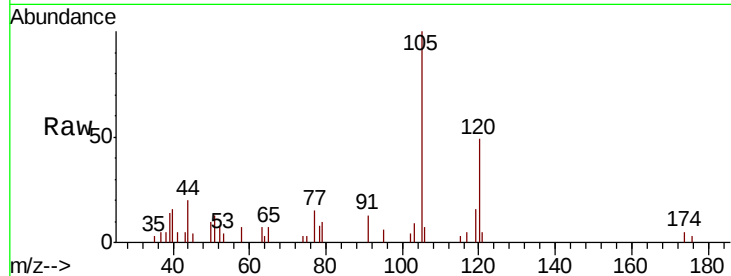




#80
 1,3,5-Trimethylbenzene
 Concen: 0.829 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#08

Tot Ion:105 Resp: 7563
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 140.688 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052392.D
 Acq: 19 Nov 2018 18:27

Tgt Ion: 75 Resp: 104994
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#

